TouchTunes
INTERACTIVE NETWORKS

VIRTUO

Floor Stand Guide

Disclaimer

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Contents

1 Welcome 5
- Introducing the Virtuo Floor Stand . . . 6
- About this guide . . . 6
- Disclaimer and important safety information . . . 7
- Contacting TouchTunes . . . 10

2 Installing the Virtuo Floor Stand 11
- Bringing the Virtuo Floor Stand to a Location . . . 12
- Floor Stand Dimensions . . . 12
- List of Floor Stand Components . . . 12
  - Preparing Tools for Installation . . . 15
- Floor Stand Installation . . . 16
  - Unbolting and Removing the Floor Stand from the Pallet . . . 16
  - Assembling the Baseplate . . . 17
  - Rolling the Floor Stand into the Baseplate . . . 18
- Installing and Connecting the Floor Stand Acoustics . . . 20
  - Removing the Floor Stand Rear Panels . . . 20
  - Attaching the Array Speakers . . . 21
- Mounting the Virtuo to the Floor Stand . . . 23
- Wiring Everything . . . 26
  - Installing the Crossover Box . . . 26
  - Understanding Floor Stand Wiring . . . 27
  - Connecting the Audio Cables to the Virtuo . . . 28
  - Connecting the Subwoofer and Array Speaker Wires . . . 29
  - Wiring the DA-415 Amplifier . . . 30
  - Speaker Wiring Examples . . . 32
  - Securing the Wires . . . 33
- Finishing Up . . . 34
  - Reattaching the Back Panels . . . 34
  - Levelling the Floor Stand . . . 35
  - Powering Up the Virtuo . . . 36

1 Welcome

This section introduces the Virtuo Floor Stand, provides important safety information, and describes how to get customer support.

Introducing the Virtuo Floor Stand

About this guide

Disclaimer and important safety information

Contacting TouchTunes

Introducing the Virtuo Floor Stand

Congratulations on your purchase of a Virtuo Floor Stand.

As well as supporting your Virtuo SmartJuke, the Virtuo Floor Stand provides you with a platform for equipping your Virtuo with TouchTunes acoustic packages, resulting in a powerful combination of sound output configurations on all 3 zones.

About this guide

This guide is intended for Operators of TouchTunes digital jukeboxes and their technicians, and TouchTunes technical support and field service personnel. It provides important information about the installation, setup, and operation of your new Virtuo.

Disclaimer and important safety information

TouchTunes Interactive Networks is not responsible for any damage resulting from the improper installation or connection of test kit components or any other external equipment to your kit. Nor is TouchTunes responsible for any damage caused during shipment (except the shipment to the original purchaser) or any damage caused by:

- impacts, fluids, fire, flood, wind, earthquake, lightning or similar disaster
- unauthorized modifications, attachments or peripherals, improper use, environment, installation or electrical supply
- improper maintenance
- any other misuse, abuse, or mishandling

Familiarize yourself with this important safety information before proceeding with product installation.

WARNING: Do not operate the Virtuo Floor Stand without the integrated subwoofer and the base plate attached.

The subwoofer and the base plate are integral components to maintaining the Virtuo Floor Stand's stability, and both must remain attached to the Virtuo Floor Stand at all times when in operation.

WARNING: The handles and wheels on the Virtuo Floor Stand are intended to facilitate tilting the Floor Stand backwards and rolling the Floor Stand into its base WITHOUT a Virtuo mounted. Note the following warning label is affixed on the upper reverse of the Floor Stand:

Reclining the Floor Stand and/or rolling it on its wheels with a Virtuo mounted presents a serious risk of human injury. The Floor Stand handles are not lift points with or without a Virtuo mounted to the Floor Stand. Note the following warning label is affixed next to the handle:

The Floor Stand is supplied with a preinstalled DA-415 amplifier in the base. The amplifier in the Virtuo must be used only to power the Floor Stand's array speakers and subwoofer. The DA-415 amplifier can be used only to power other speakers not included on the Floor Stand, such as a house system.

Do not add a second amplifier to the Virtuo Floor Stand.

WARNING: This symbol alerts you to the presence of dangerous voltage within the product enclosure that can be of sufficient magnitude to constitute a risk of electrical shock. Do not remove the cover or back. There are no user-serviceable parts inside. Servicing must be performed by qualified personnel only.

CAUTION: This appliance must not be tipped (except to roll stand with no Virtuo mounted), shaken, rocked, or climbed upon. Doing so can cause injury or death. This appliance is only intended for use with the Virtuo SmartJuke.

CAUTION: Do not install this equipment near any heat sources, such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

CAUTION: Do not defeat the safety purposes of the polarized or grounding-type plug. A polarized plug has two blades with one blade wider than the other. A grounding-type plug has two blades and a third grounding prong. The wider blade or the third grounding prong are provided for your safety. If the provided plug does not fit in your outlet, consult an electrician for replacement of the obsolete outlet.

To prevent risk of fire or electric shock, avoid overloading wall outlets, and do not use extension cords.

Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

CAUTION: See product enclosure for safety related markings and refer to the product's Virtuo manual on the TouchTunes website for additional safety information.

Do not use this apparatus near water of moisture—Do not use this product near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, near a swimming pool, or anywhere else that water or moisture are present.

Clean only with a dry cloth—and as directed in this document. Unplug this product from the wall outlet before cleaning.

Do not block any ventilation opening. Install in accordance with the manufacturer's instructions—To ensure reliable operation of the product and to protect it from overheating, put the product in a position and location that will not interfere with its proper ventilation.

Do not let objects or liquids enter the product—as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.

Use only attachments and accessories specified by the manufacturer.

Refer all service to qualified service personnel. Service is required when the apparatus has been damaged in any way: such as power-supply cord or plug is damaged; liquid has been spilled or objects have fallen into the apparatus; the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

The Floor Stand is supplied with a preinstalled DA-415 amplifier in the base. The amplifier in the Virtuo must be used only to power the Floor Stand's array speakers and subwoofer. The DA-415 amplifier can be used only to power other speakers not included on the Floor Stand, such as a house system.

Do not add a second amplifier to the Virtuo Floor Stand.

Contacting TouchTunes

If you need help with or have questions about this document, contact TouchTunes by:

- using the email links on the Contacts page on the TouchTunes Dashboard at https://operator.touchtunes.com.
- calling the TouchTunes 24/7 Service Hotline at 847-353-1954.

To help us assist you more effectively with problem reports, the following information can be required when contacting TouchTunes Support:

- Virtuo ID.
- The serial number of any component you believe to be defective.
- The date/time of the problem.
- Actions performed immediately before the problem occurred.
- Any additional comments.

If you need assistance with this or any other TouchTunes product, call technical support at 847-353-1954. We value your comments.

2 Installing the Virtuo Floor Stand

This chapter explains how to install the Virtuo Floor Stand in a location, including how to assemble the baseplates, mount a Virtuo on the Floor Stand, and wire the speakers and integrated subwoofer.

Topics

Bringing the Virtuo Floor Stand to a Location

Floor Stand Dimensions

List of Floor Stand Components

- Preparing Tools for Installation

Floor Stand Installation

- Unbolting and Removing the Floor Stand from the Pallet
- Assembling the Baseplate
- Rolling the Floor Stand into the Baseplate

Installing and Connecting the Floor Stand Acoustics

- Removing the Floor Stand Rear Panels
- Attaching the Array Speakers
- Mounting the Virtuo to the Floor Stand

Mounting the Virtuo to the Floor Stand

Wiring Everything

- Installing the Crossover Box
- Understanding Floor Stand Wiring
- Connecting the Audio Cables to the Virtuo
- Connecting the Subwoofer and Array Speaker Wires
- Wiring the DA-415 Amplifier
- Speaker Wiring Examples
- Securing the Wires

Finishing Up

- Reattaching the Back Panels
- Levelling the Floor Stand
- Powering Up the Virtuo

Bringing the Virtuo Floor Stand to a Location

Before you begin, bring the Floor Stand to the area of the location where you intend to install it. This avoids possibly damaging the unit by moving it afterwards.

IMPORTANT: TouchTunes recommends that you unpack the Floor Stand as closely as possible to its intended installation location.

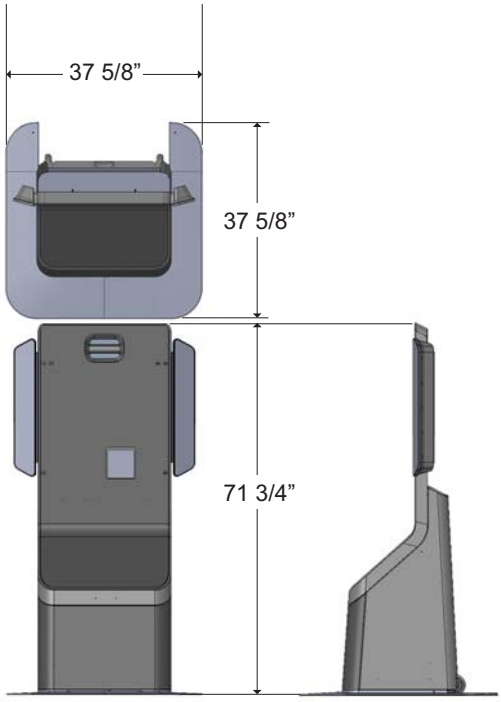
CAUTION: The Virtuo is heavy and represents a serious safety hazard if its mounting system should fail. Installation of the mounting system for the Virtuo should be performed only by an experienced installer or licensed contractor familiar with standard rigging, mounting and hanging practices as recognized by a licensed engineer or government agency in your area.

Floor Stand Dimensions

A TouchTunes Virtuo Floor Stand is delivered on a pallet, including hardware components and a parts kit.These tables show the weight and dimensions of the Virtuo Floor Stand.

Floor Stand weight	
Floor Stand	180 lbs. (82 kg)
Packaging	50 lbs. (23 kg)

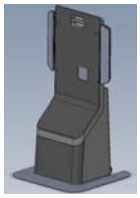
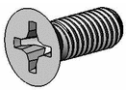
Floor Stand dimensions			
	Width	**Depth**	**Height**
Floor Stand	37.63 in. (96 cm)	37.63 in. (96 cm)	71.75 in. (183 cm)
Floor Stand Crated	34.50 in. (88 cm)	26.00 in. (66 cm)	77.50 in. (179 cm)

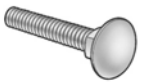
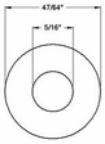
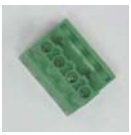


List of Floor Stand Components

Before you install the Floor Stand, check that you have received all of the hardware components and that the hardware components and items in the parts kit are in good condition.

Verify that you have received these hardware components for Virtuo:

Component Quantity	Component Description		TouchTunes Part Number
1	Floor Stand		700275-001
1	Integrated subwoofer 500w, factory-installed into jukebox		700280-xxx
1	DA-415 4 channel amplifier, factory-installed into jukebox		700039-154
2	Array speakers 150w		700283-xxx
1	Crossover box		700282-001
1	right base plate		400972-001
1	left base plate		400971-001
1	FAS,SCR,X-CSNK,3/8-16x1, Zinc Screws for the Floor Stand base plates		200151-016
2	HAR, 18AWG speaker wire, 48" Speaker wire for array speakers		300703-048

Component Quantity	Component Description		TouchTunes Part Number
4	FAS,SCR,WING,1/4-20x1-3/32,ZN Wingnut, for fastening array speakers		200132-001
4	FAS,SCR,ROUND,1/4-20x5,ZN Screw, for fastening array speaker		200133-005
4	FAS,WSHR,1/4,ZN Washer, for fastening array speaker		200019-004
1	HAR, 16AWG speaker wire, 72" Speaker wire for subwoofer (pre-installed to subwoofer)		300704-072
6	HWR, dome plug, 5/16" Black nylon for plugging holes, if array speakers not installed		401040-001
6	FAS, SCR, X-PAN,10-24x1", Zinc For wall bracket installation		200128-016
6	FAS,WSHR,NO.10, Zinc For wall bracket installation		200134-001
2	HAR, CAT-5, 36" Cat-5 for amplifier to Virtuo		300142-036
1	HAR,AC PWR CORD,AMP,HARM,35" Power cable for amplifier, right-angle plug		300615-035
2	ECP, EURO TERM BLOCK CONN, 4-PIN Euroblock connectors for amplifier		100000-001

Component Quantity	Component Description		TouchTunes Part Number
1	TLS,HEX L-KEY,3/16x6,BLK Allen key (Hex Key) for set screws		700307-001
2	FAS,STSCR,CONE PT,3/8-16x3/4", Black Floor stand to base (sides)		200143-012
2	FAS,STSCR,FLAT PT,3/8-16x1/2", Black To be used on base for minor leveling		200144-008
2	FAS,STSCR,FLAT PT,3/8-16x1", Black To be used on base for major leveling		200144-016
1	Virtuo Floor Stand Guide (This document)		5900579-001 Rev 06

Check the condition of the hardware components and parts kit items to ensure they are in good condition.

Preparing Tools for Installation

CAUTION: Do not attempt installation if any hardware component or item in the parts kit is damaged. Contact your distributor or TouchTunes to report the damage immediately and request replacement parts.

You may require these tools to install the Floor Stand. Ensure that you have all the tools at hand before beginning the installation:

- spirit level to ensure the Floor Stand and the Virtuo are level
- Phillips #2 screwdriver
- Phillips #3 screwdriver
- 3/8 inch open ended wrench
- 3/16 inch Allen Key (Hex Key)
- tie wraps for securing wires

Floor Stand Installation

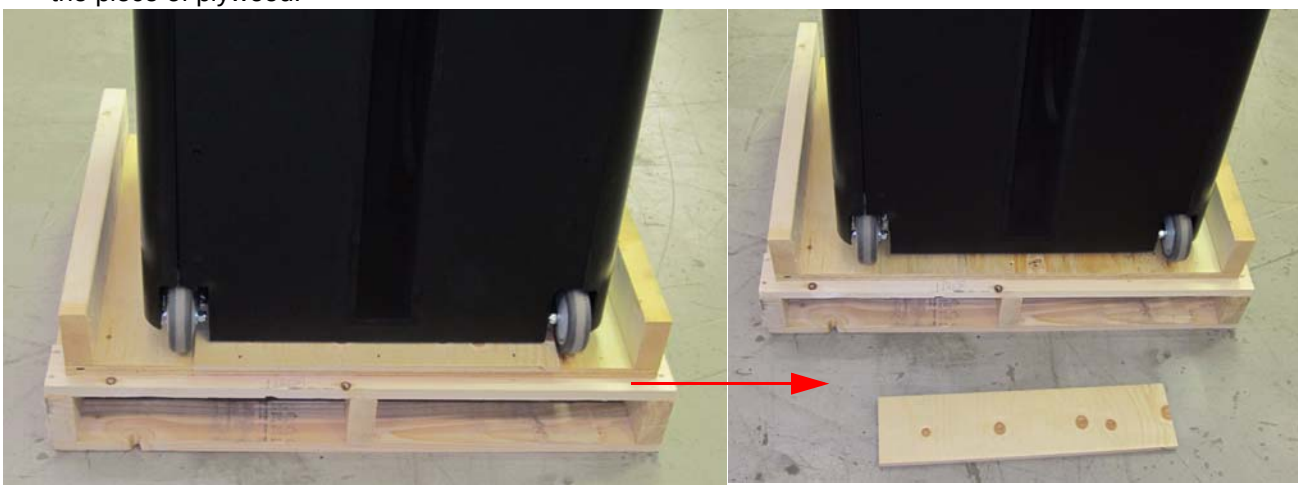
The Floor Stand arrives bolted to a pallet. In order to remove the Floor Stand from the pallet and assemble it, you will need to:

- Unbolt and remove the Floor Stand from the pallet
- Assemble the baseplate
- Roll the Floor Stand into the baseplate
- Secure the Floor Stand to the base
- Level the Floor Stand

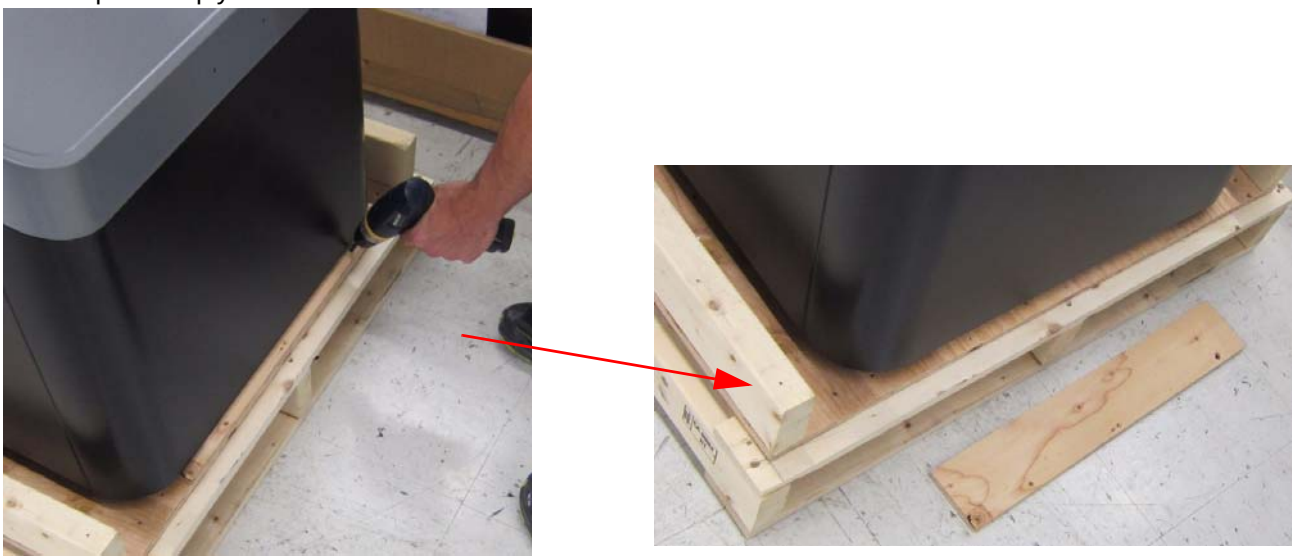
Unbolting and Removing the Floor Stand from the Pallet

The Floor Stand is held in place on the pallet by two pieces of plywood (one in front, one in the back) which are screwed onto the pallet using three wood screws each.

1. Remove the three screws holding the plywood that holds the back of the Floor Stand in place, then remove the piece of plywood.



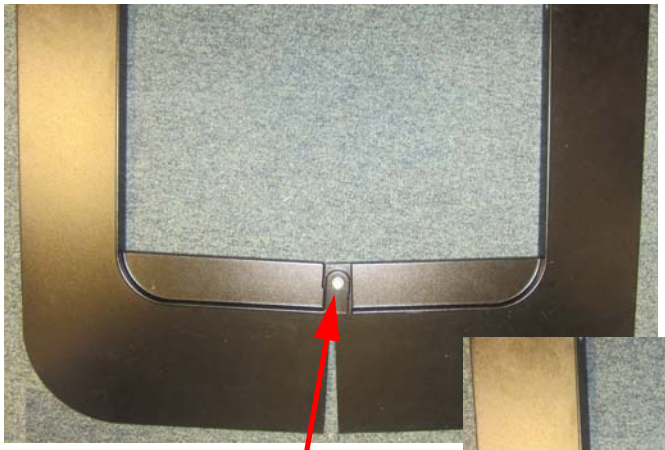
2. Remove the three screws holding the plywood that holds the front of the Floor Stand in place, then remove the piece of plywwod.



The Floor Stand can now be moved off the pallet.

WARNING: The Floor Stand handle is not a lift point and must not be used to remove the Floor Stand from the pallet.

Assembling the Baseplate



Use 200151-016 to lock the two base pieces together

The baseplate consists of a right and left piece that combine to form a horseshoe. The Floor Stand is then rolled into this plate and secured.

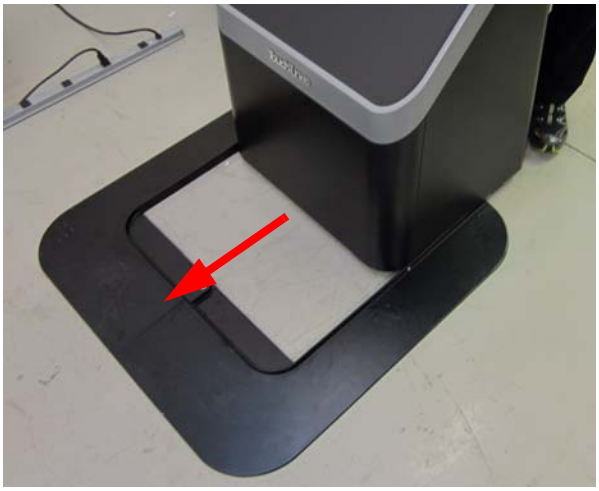
Connect the two baseplate pieces as shown with the left piece on top of the right piece.

Insert and tighten the 3/8-16x1 zinc fastening screw (200151-016) to lock the two pieces together.

Rolling the Floor Stand into the Baseplate

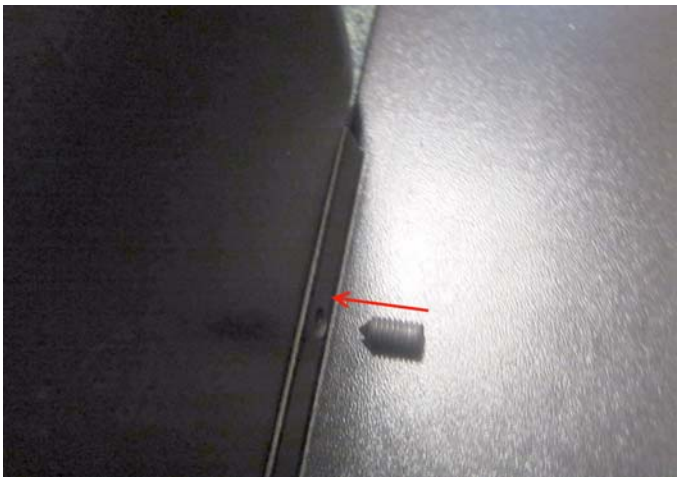
Determine where the Floor Stand with the Virtuo mounted on it will ultimately be placed and move the baseplate to that location. You must NEVER roll the Floor Stand with a Virtuo mounted.

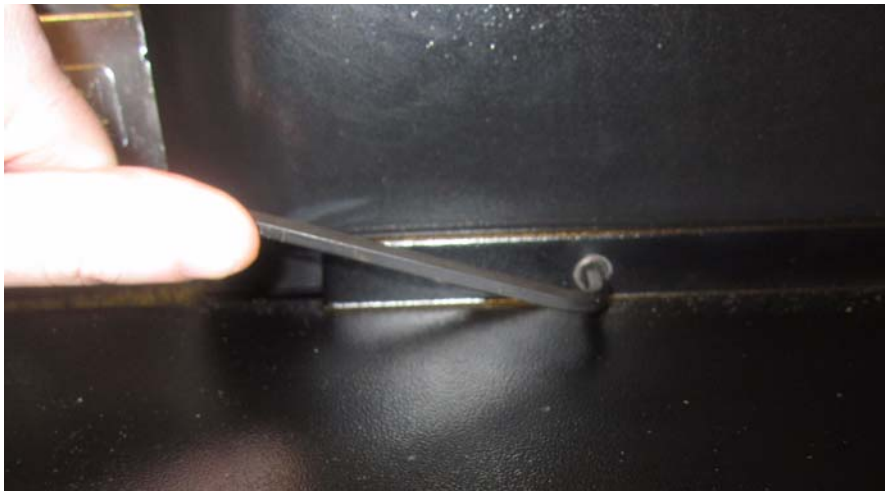
Grab the handle on the rear panel of the Floor Stand and tilt it forwards just enough so you can slide it forward into the baseplate.



Securing the Floor Stand to the Baseplate

There are 2 set screws with conical points (200143-012) included with the kit for securing the baseplate to the Floor Stand.





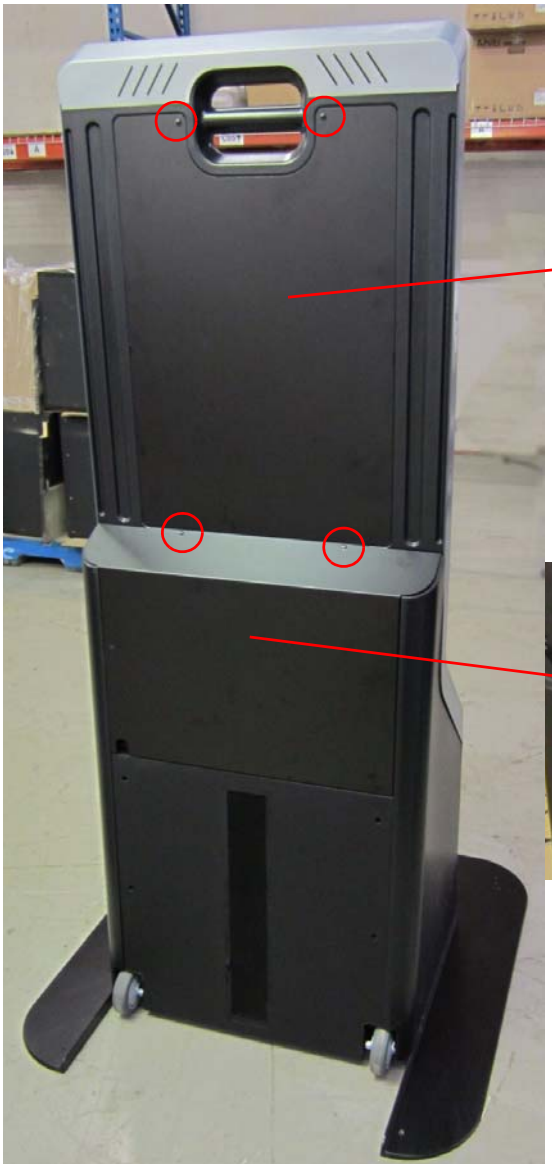
Using an supplied 3/16 inch Allen Key (also called a Hex key), insert the two set screws into the base, and tighten them slowly in turn so that no one set screw is too tight while any other is still loose.

Installing and Connecting the Floor Stand Acoustics

Installing the Floor Stand acoustics consists of the following:

- Removing the rear panels
- Mounting and wiring the satellite speakers
- Re-attaching the rear panel

Removing the Floor Stand Rear Panels



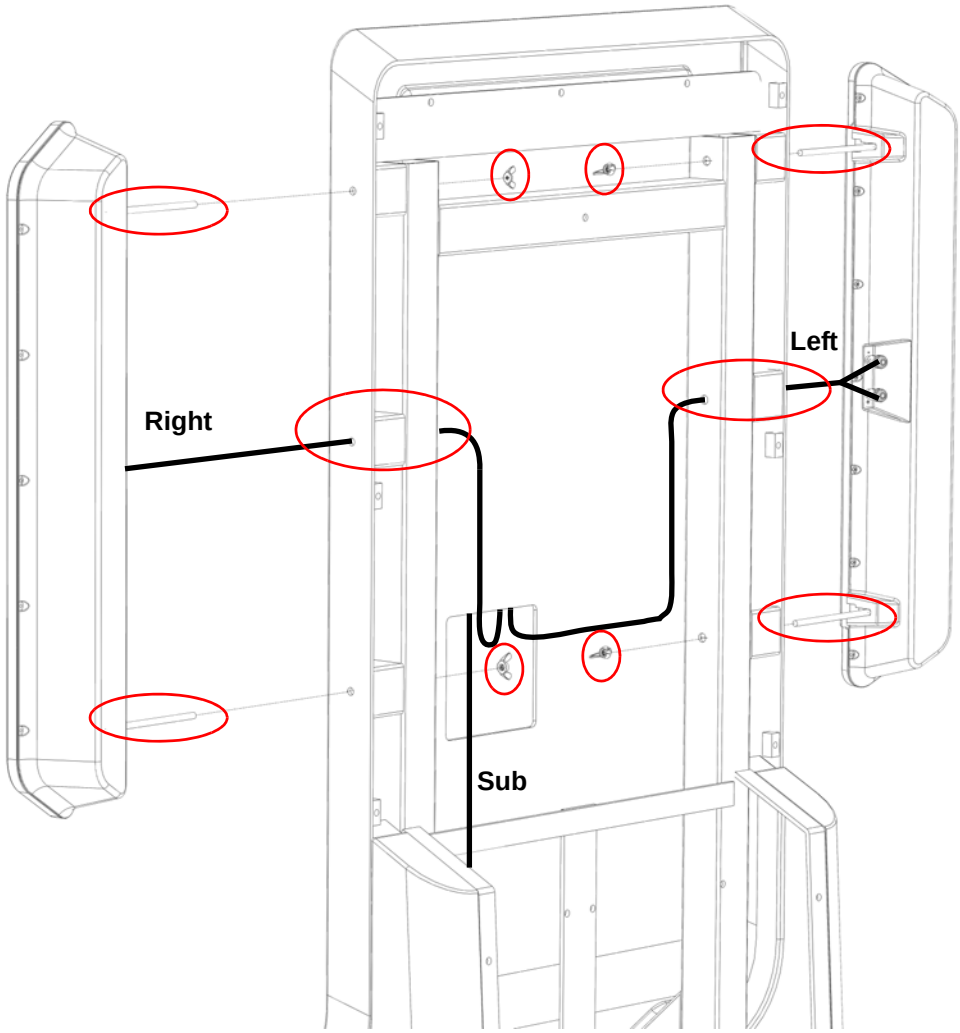
The rear panel is made out of two parts, each held in place by two screws.

To remove each panel, simply remove its two screws and pull it off.

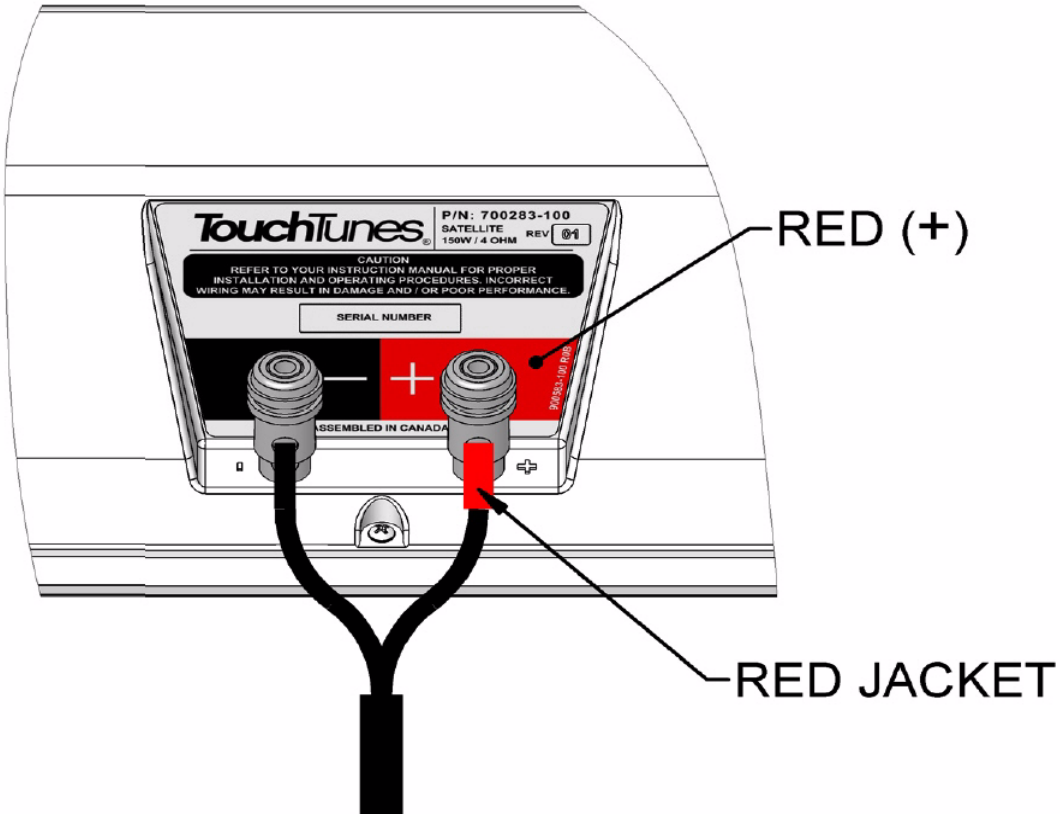
Attaching the Array Speakers

1 - Pass the array speaker wires and subwoofer wires through the middle tubes on the sides of the Floor Stand.

2- Bolt the array speakers onto the Floor Stand frame using the supplied bolts and wingnuts.



Attach the speaker wires to the array speakers.



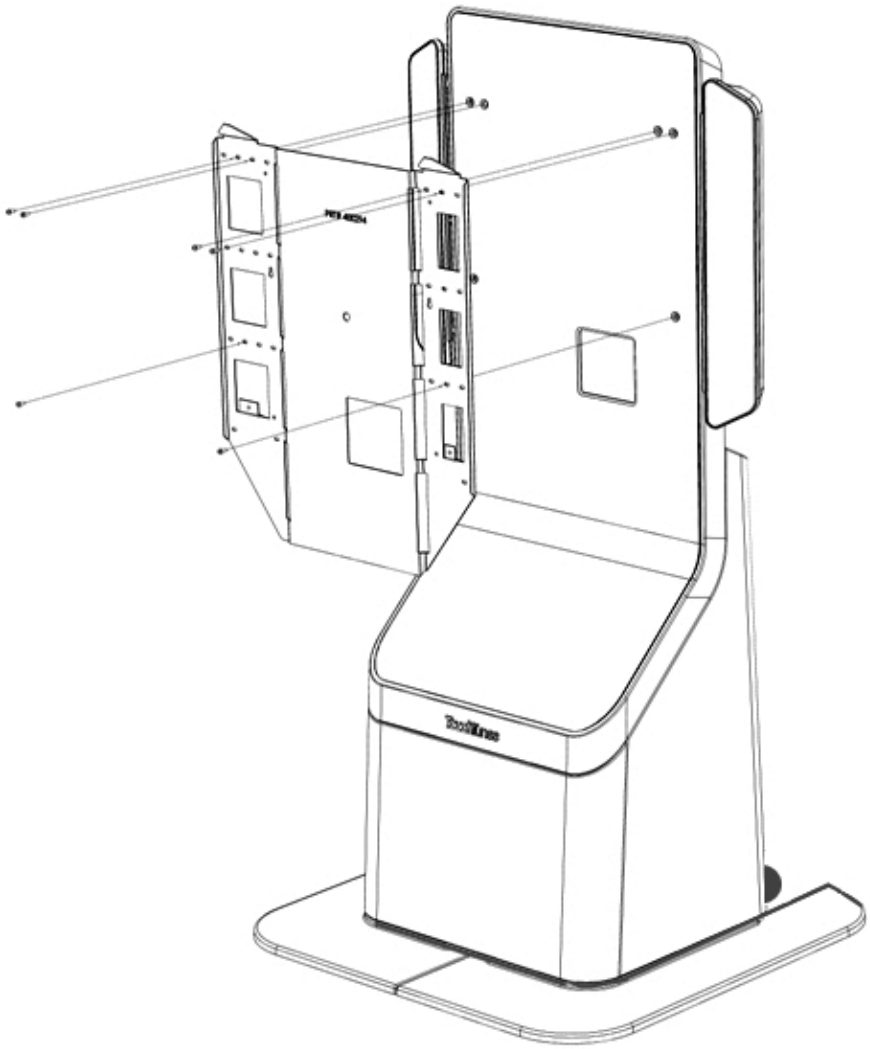
Mounting the Virtuo to the Floor Stand

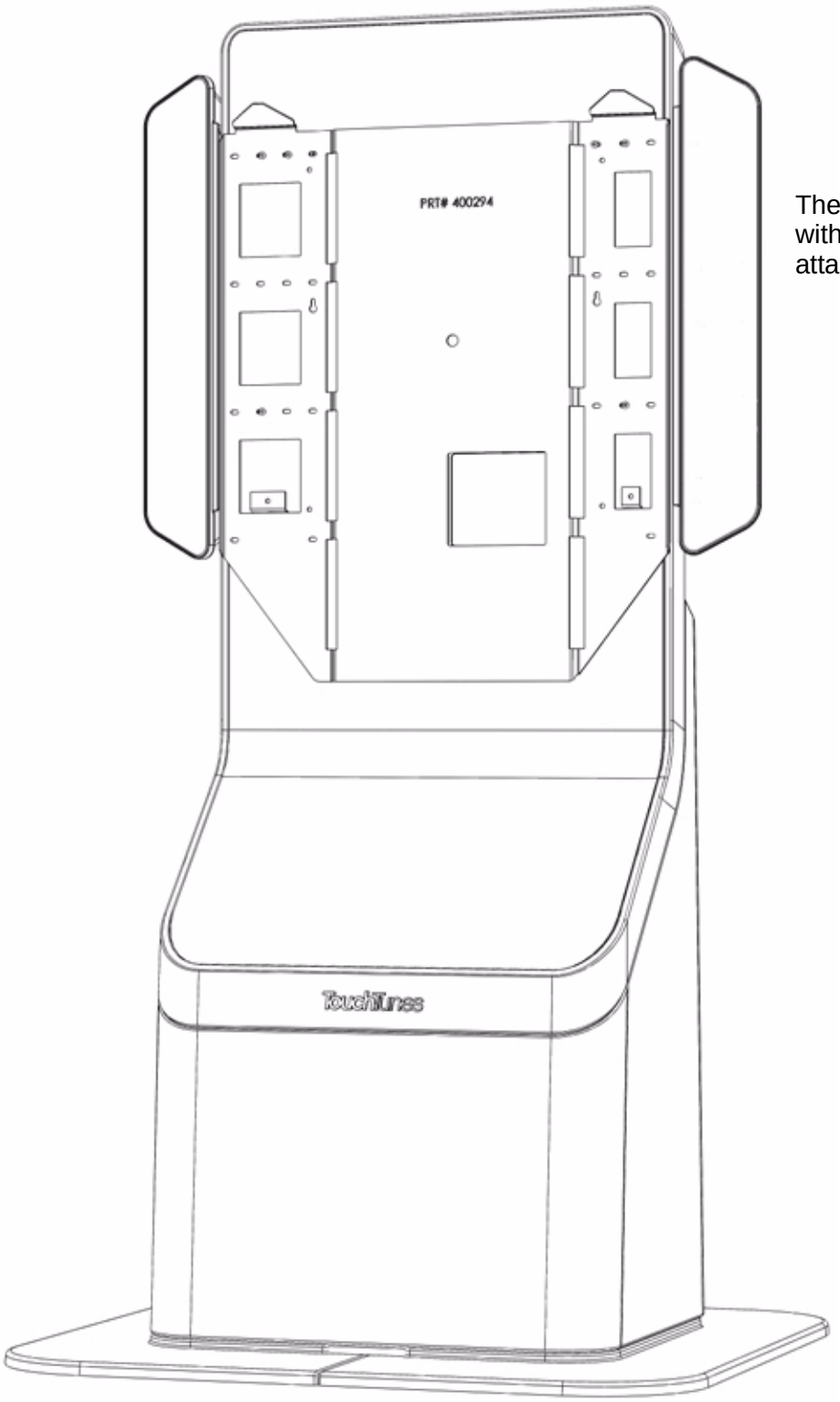
1. Before you begin, make sure the Floor Stand is located in the area where you want it installed.
2. If the Virtuo is installed on a wall, unmount it.

CAUTION: The Virtuo is heavy and can cause injury if lifted incorrectly. TouchTunes recommends at least two people perform the following procedure. **Do not under any circumstances drag the Virtuo along the floor, as doing so can damage it.**

CAUTION: Before you install the Virtuo, make sure the integrated subwoofer or ballast is installed in the Floor Stand.

3. Detach the wall bracket from the wall.
4. On the Floor Stand, identify where the holes are for attaching the wall bracket, and attach the wall bracket to the Floor Stand using the supplied screws (200128-016) and washers (200134-001).

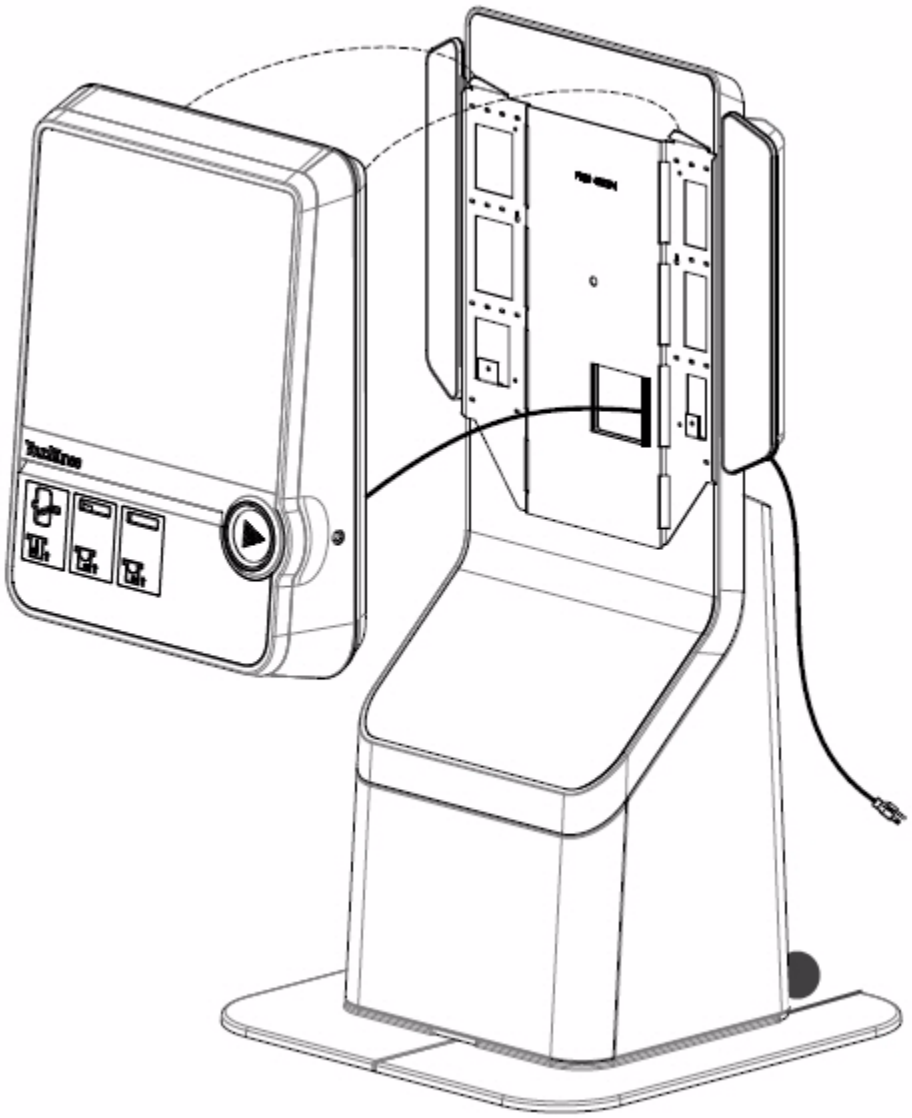




The Floor Stand with the wall bracket attached

5. Identify the flange hooks on the back of the Virtuo.
   The flange hooks fit into receptacles on the front of the wall bracket, securing the Virtuo to it.

6. With the assistance of another person, lift the Virtuo so that the top of Virtuo is slightly higher than the top of the bracket.
7. Pass the power wire from the Virtuo through the Floor Stand.

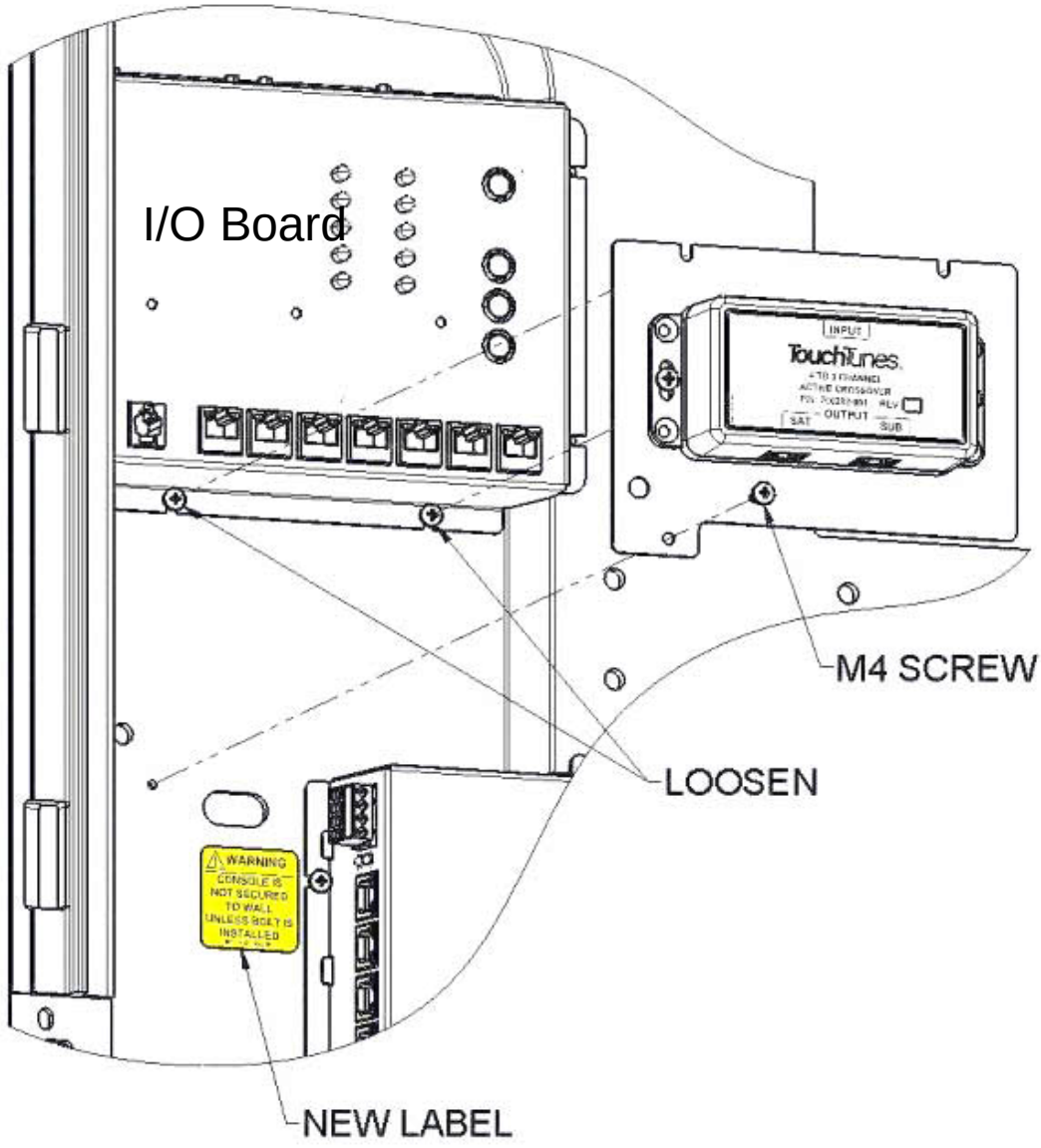


8. Align the flange hooks on Virtuo with the receptacles on the front of the bracket on the Floor Stand.
9. Hang the Virtuo on the Floor Stand, allowing the weight of the unit to set it into position.
10. Attach the Virtuo to the back plate with the supplied wing screws, part number 200099-008.

Wiring Everything

Installing the Crossover Box

1. In the Virtuo, disconnect the audio CAT-5 cables from the I/O board Zones 1 and 2.
2. Loosen the two lower screws from the I/O board enclosure.
3. Insert the crossover bracket under the I/O board screws and fasten the lower left corner with the M4 screw (included in the kit).
4. Attach the 7 inch CAT-5 cable (included in the kit) to Zone 1 of the I/O board and to the input of the crossover.
5. Attach the audio CAT-5 cables according to the diagram shown in Connecting the Audio Cables to the Virtuo.
6. Tighten the I/O board screws.
7. Install the replacement warning label under the Virtuo mounting slot (included in the kit).

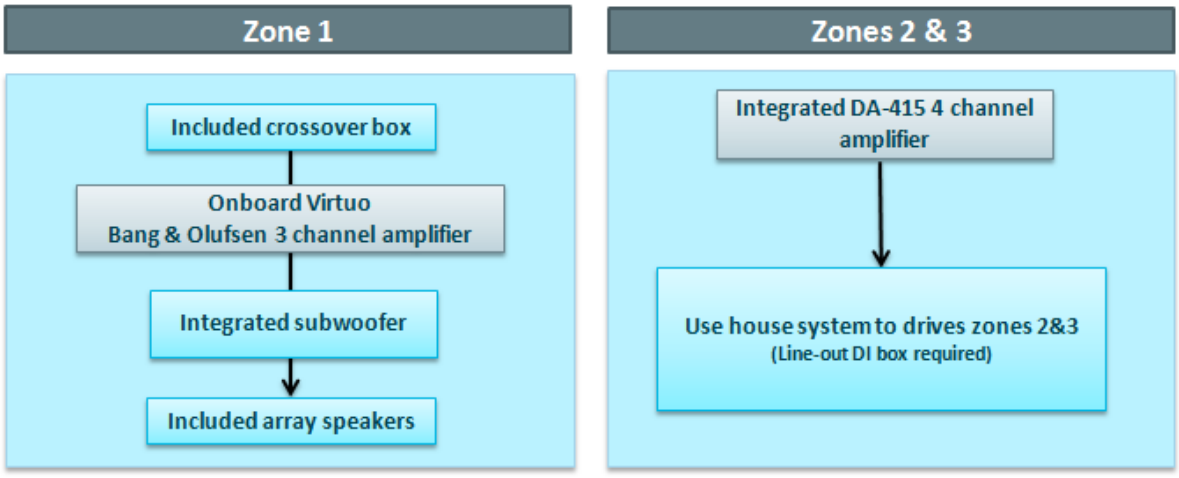


Understanding Floor Stand Wiring

This diagram explains how the standard Virtuo Floor Stand configuration works and will help you with wiring the components to the Floor Stand.

The Virtuo onboard amplifier is converted through the crossover box to three channels, which drive the subwoofer and array speakers on Zone 1.

The DA-415 4 channel amplifier drives the house system on Zones 2 and 3.



The subwoofer and DA-415 have labels to guide you with correctly wiring the components.

DA-415

This DA-415 amplifier CANNOT be used to power the Virtuo Floor Stand's integrated subwoofer or array speakers.

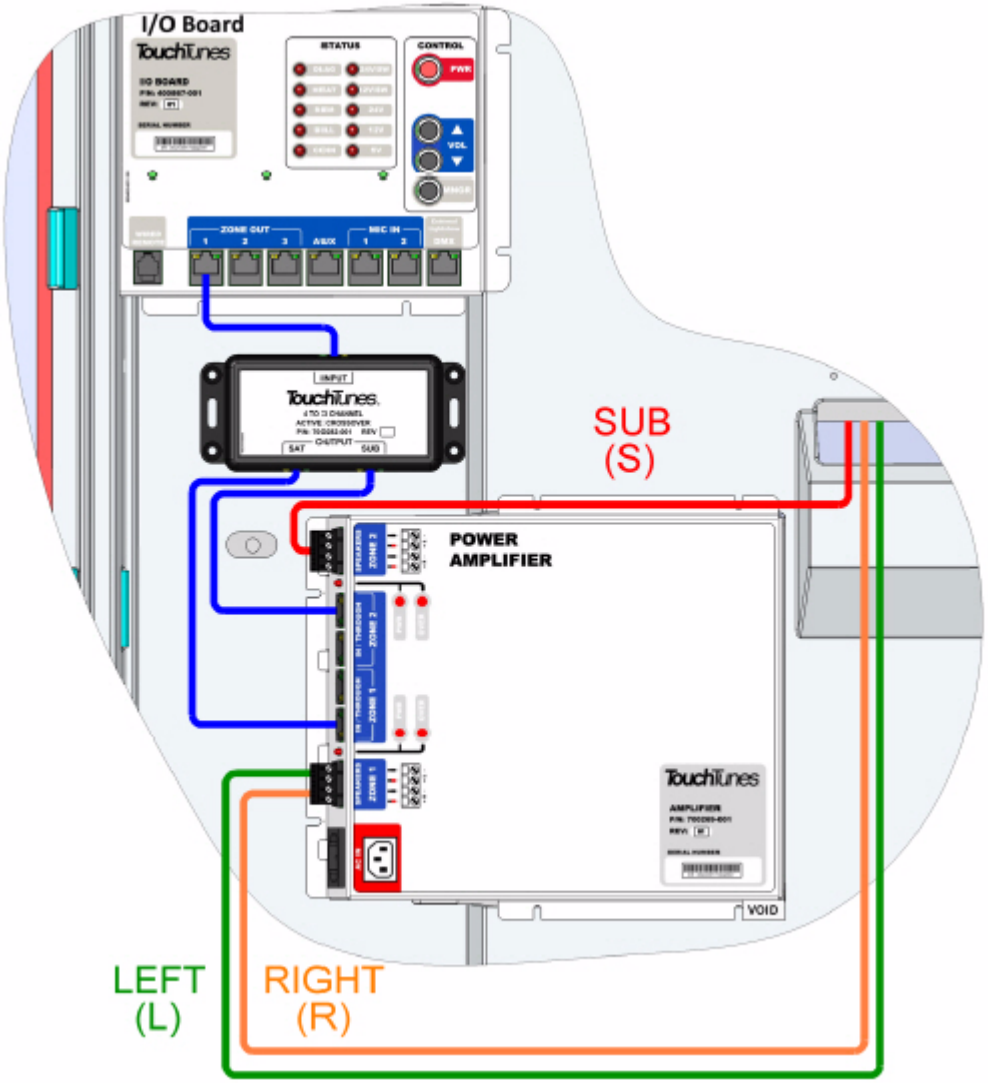
It can be used only to power externally connected devices on Virtuo's Zone 2 and Zone 3.

Subwoofer

This integrated subwoofer and the array speakers included with the Virtuo Floor Stand can only be powered using the Virtuo's onboard amplifier on Zone 1. No other amplifier can be used to power these devices.

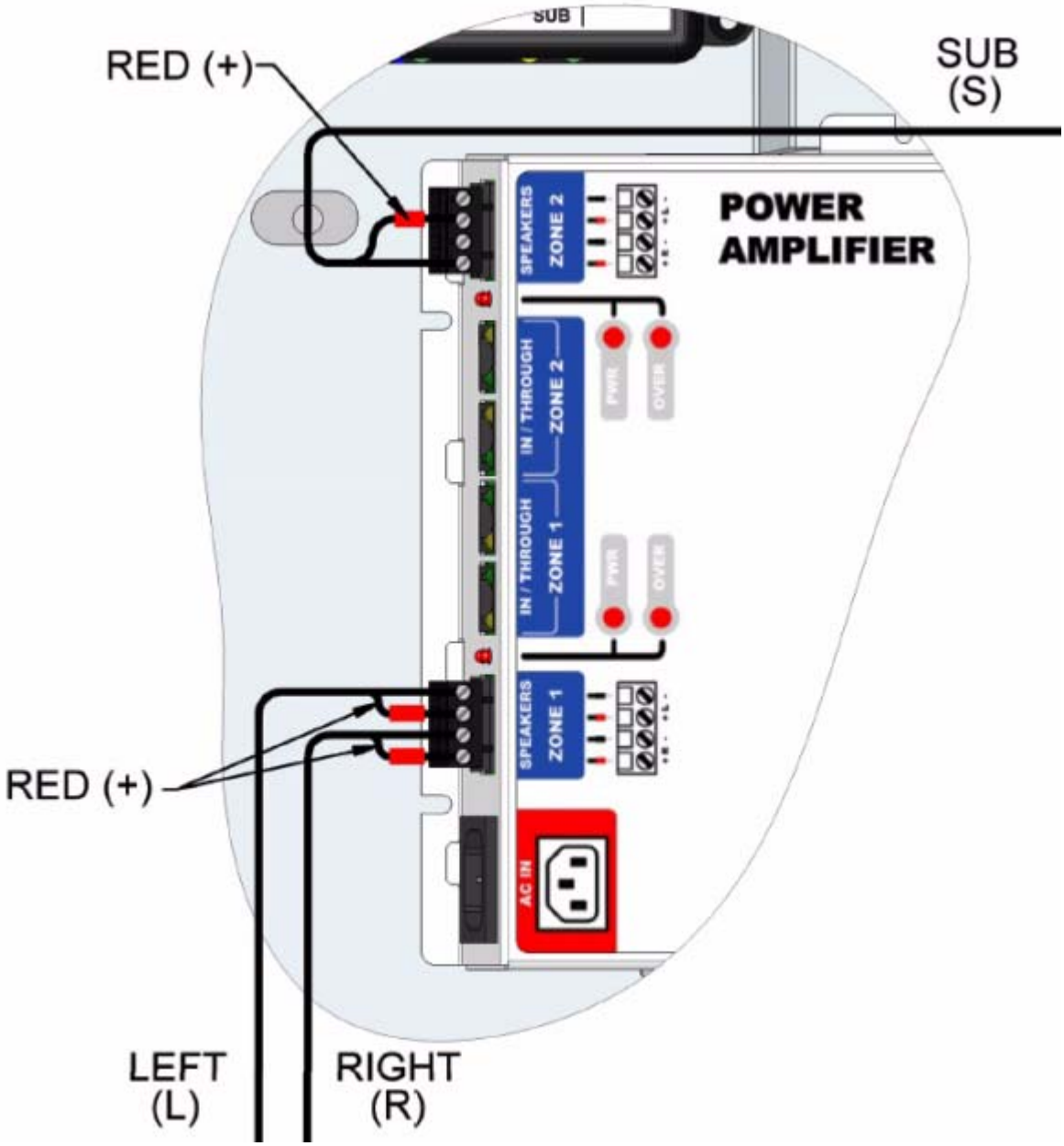
Connecting the Audio Cables to the Virtuo

Pass the speaker wires into the Virtuo and connect the wires inside the Virtuo, according to this diagram, and then connect the integrated subwoofer and array speaker wires according to Connecting the Subwoofer and Array Speaker Wires.



Connecting the Subwoofer and Array Speaker Wires

1. Connect the subwoofer speaker wire to Zone 2 output of the power amplifier according to this diagram.
2. Connect the array speaker wires to Zone 1 output of the power amplifier according to this diagram.

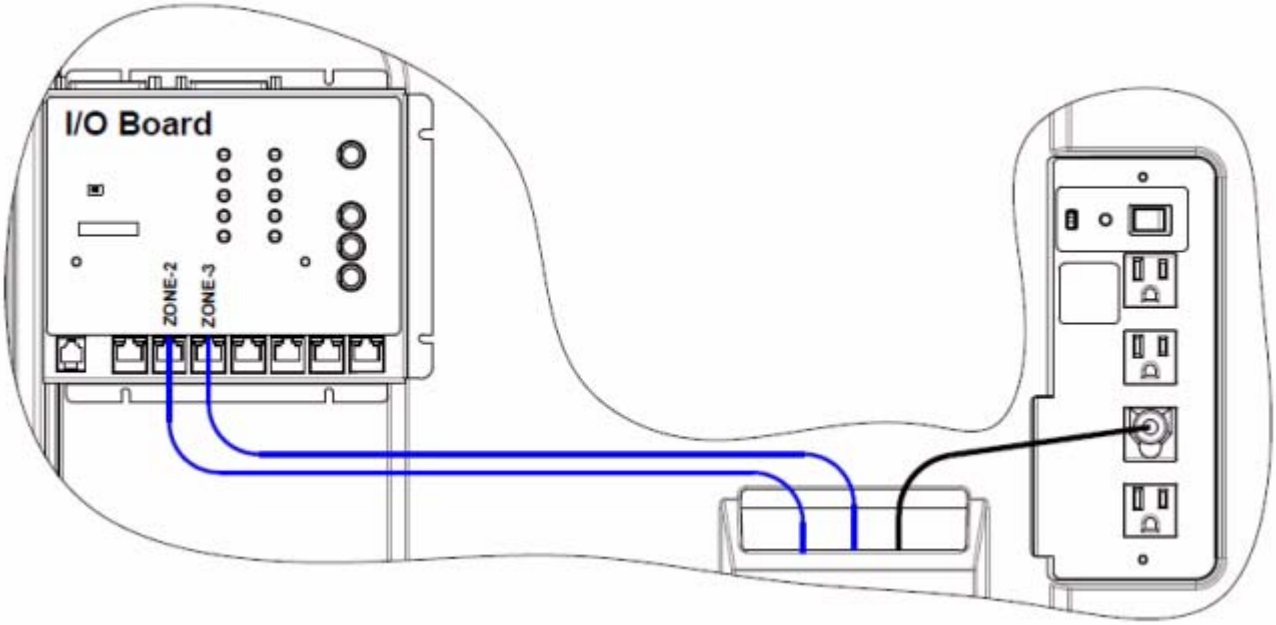


Wiring the DA-415 Amplifier

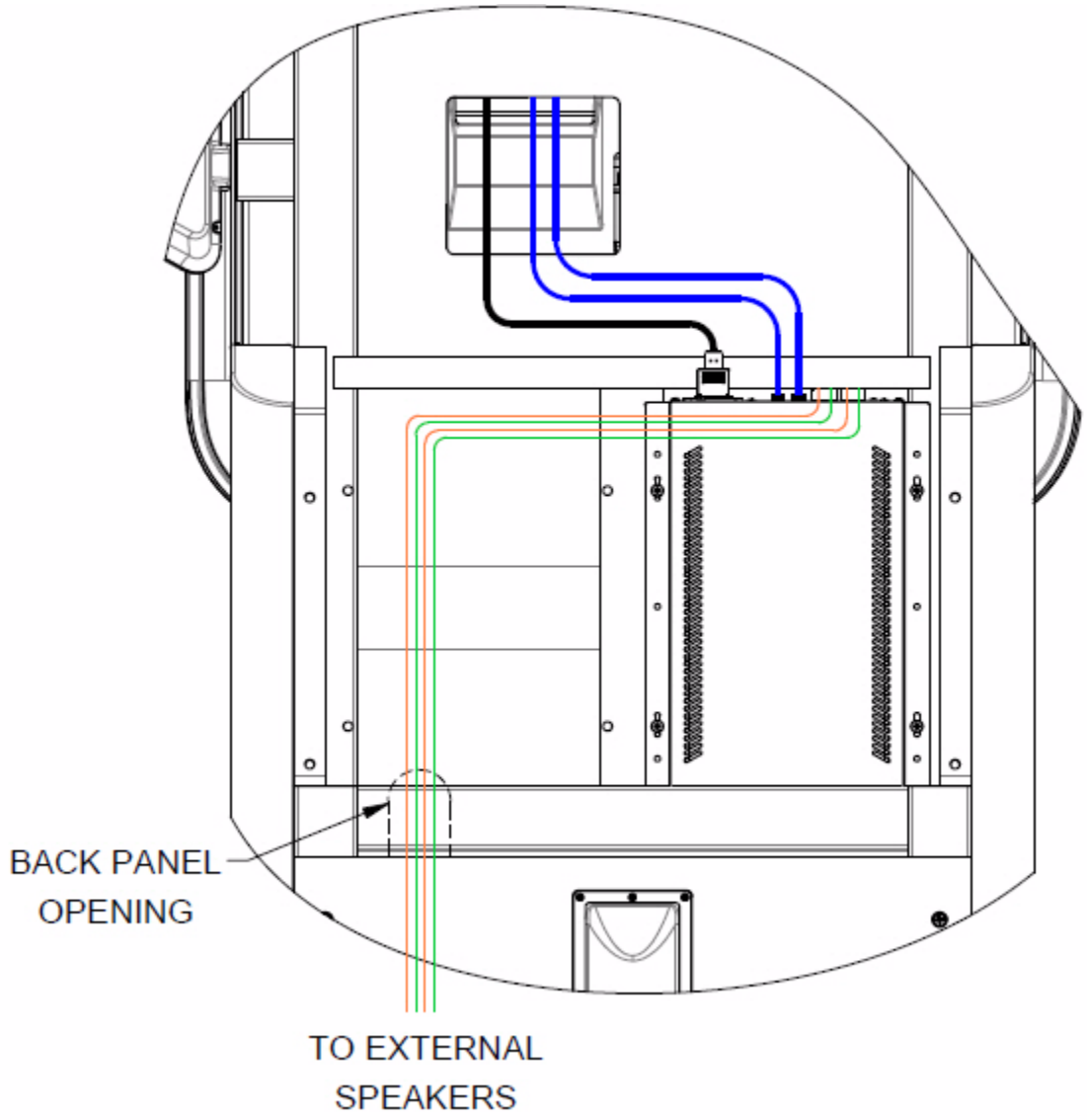
The Floor Stand is supplied with a preinstalled DA-415 amplifier in the base. The amplifier in the Virtuo must be used only to power the Floor Stand's array speakers and subwoofer. The DA-415 amplifier can be used only to power other speakers not included on the Floor Stand, such as a house system.

Do not add a second amplifier to the Virtuo Floor Stand.

This diagram shows how to connect the I/O board Zones 2 and 3 to the DA-415 amplifier, and how to connect the DA-415 to the AC strip inside the Virtuo.



This diagram shows the connections between the I/O board and Input A (Zone 2) and Input B (Zone 3) of the DA-415 amplifier. It also shows the AC plug inside the Virtuo.



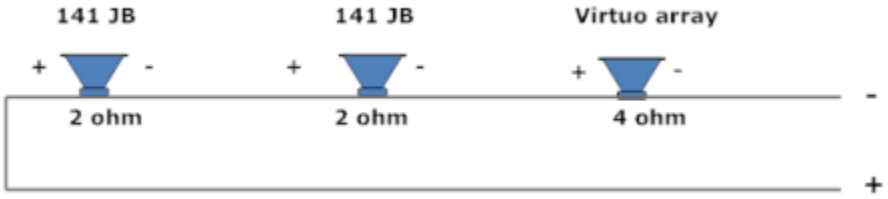
Speaker Wiring Examples

These diagrams show examples of some possible speaker wiring configurations.

CAUTION: Any configuration you choose must include a series connection with a Virtuo array speaker.

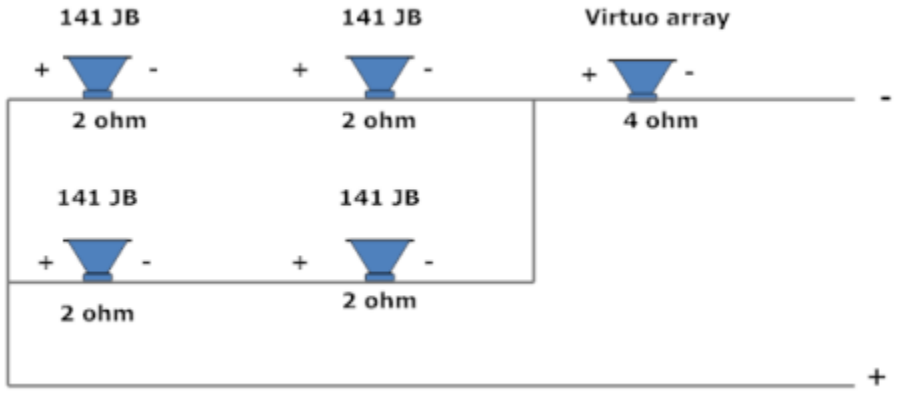
2 Bose 141 JB speakers & 1 Virtuo Array

This series configuration provides a total of 8 ohm impedance load to the amplifier



4 Bose 141 JB speakers & 1 Virtuo Array

This parallel configuration provides a total of 6 ohm impedance load to the amplifier

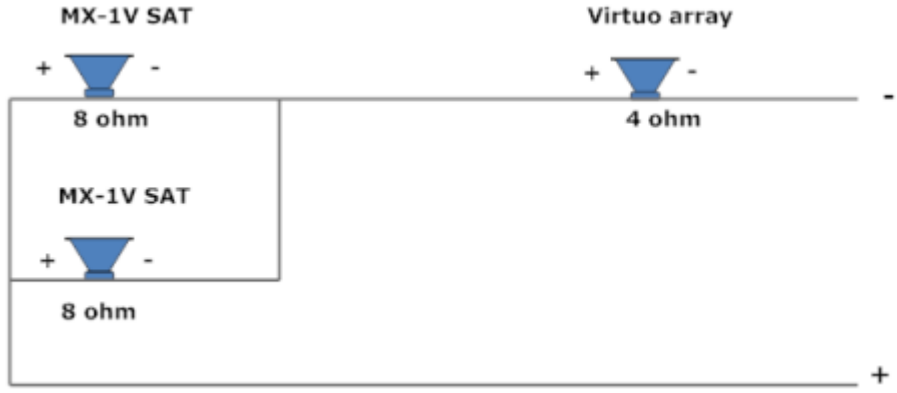


1 MX-1V Satellite & 1 Virtuo Array

This series configuration provides a total of 12 ohm impedance load to the amplifier

2 MX-1V Satellites & 1 Virtuo Array

This parallel configuration provides a total of 8 ohm impedance load to the amplifier



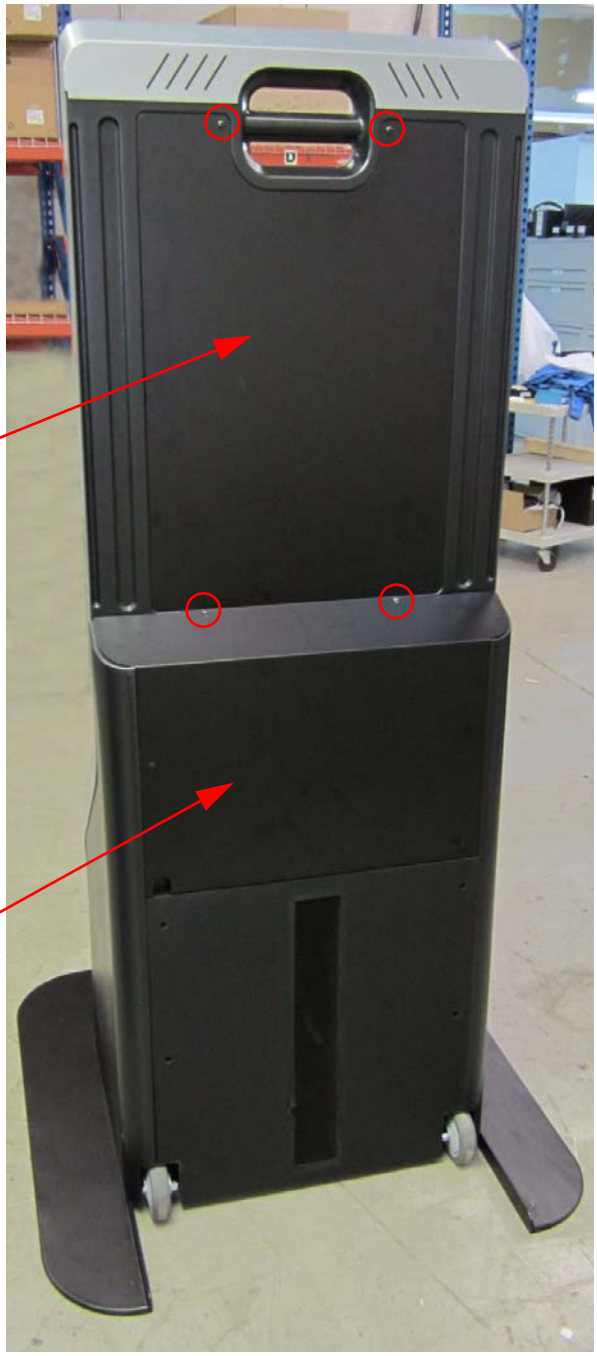
Securing the Wires

Inside the Virtuo and the back of the Floor Stand, secure the wiring in place with twist ties to facilitate service maintenance.

Finishing Up

Reattaching the Back Panels

Reattach the back panels to the Floor Stand, using the screws you removed earlier with the panels.



Levelling the Floor Stand

The Floor Stand should now be moved into its final position, if it isn't already there. Once the stand is in position, you can now adjust the base to ensure that the stand and the Virtuo are properly level.

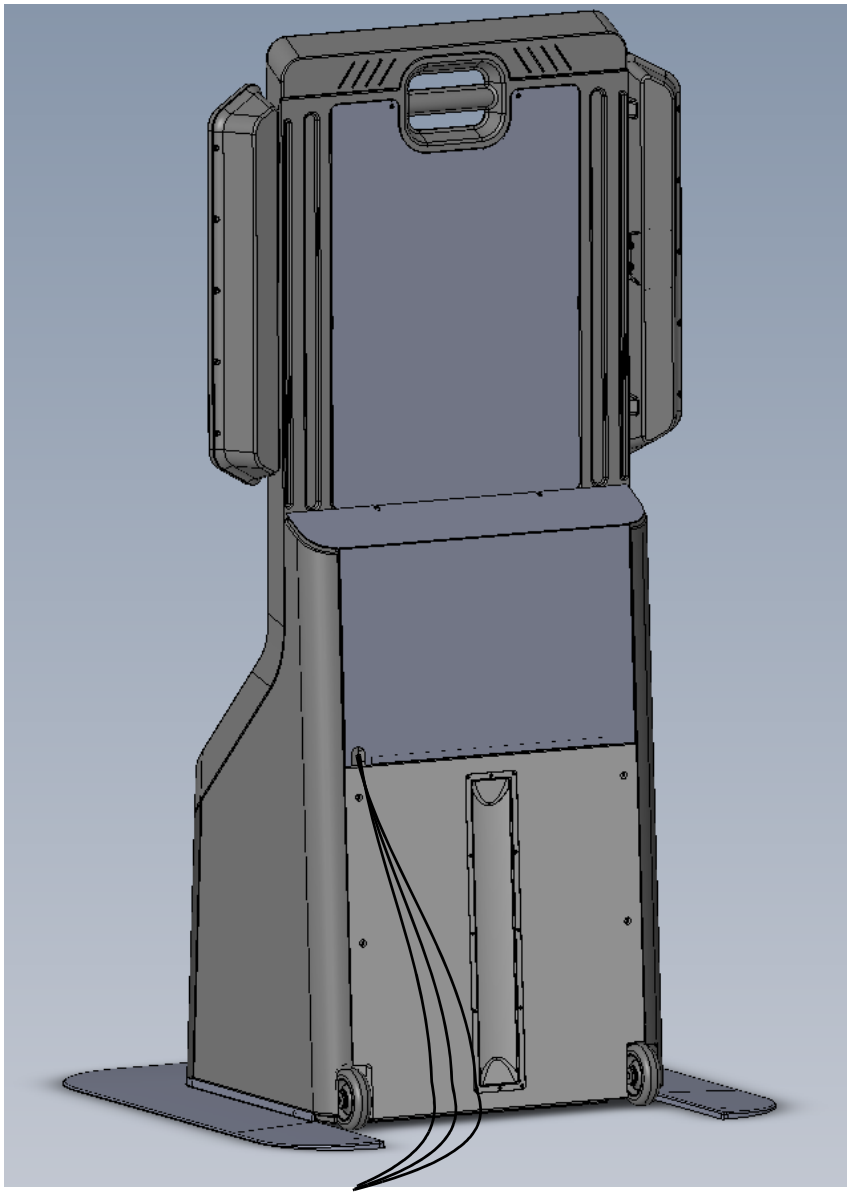
Your Floor Stand includes two 1/2" levellers (200144-008) and two 1" levellers (200144-016) that can be inserted into the rear of the two base plate pieces.

Use the shorter levellers for a small amount of levelling, or the longer levellers if more levelling is necessary.

Using the 3/16 inch Allen Key (Hex Key), insert the levellers as necessary, alternating between the left and right levellers, until the Floor Stand is completely level and stable.

Powering Up the Virtuo

You can now plug in and power up the Virtuo.



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